

CLAIMS

1. A quick lock nut for positive friction locking of a disc-like tool (2) to an external thread (3) of an axially extending working spindle (4) driven about an axis of rotation (A), said nut having an axially extending inner-threaded part (5) encircling said axis of rotation (A) for engagement with said external thread (3), and a manually displaceable tensioning means (6, 6', 6'') encircling said axis of rotation (A), and movable relative to said inner threaded part (5) between a clamping position and a release position relative to said tool (2), at least one flat spring (7) extending generally parallel to the axis of rotation (A) and mounted at one end in said inner threaded part (5) for resiliently tensioning said inner threaded part (5) with said tool (2).

2. A quick-lock nut as set forth in Claim 1, wherein said flat spring (7) opposite to the end mounted in said inner threaded part (5) is mounted in a separate axially displaceable stop (8) extending axially relative to said inner threaded part (5).

3. A quick-lock nut, as set forth in Claim 2, wherein said inner threaded part (5) is in part cylindrical in the axial direction and extend towards said stop (8), said stop (8) has a circular annular form.

4. A quick-lock nut, as set forth in Claim 1, wherein said spring (7) comprises a plurality of individual said springs (7) distributed in a circumferential arrangement encircling said axis of rotation.

5. A quick-lock nut, as set forth in Claim 1, wherein said flat springs (7) have a uniform flat zone of elasticity (9').

6. A quick-lock nut, as set forth in Claim 5, wherein said spring (7) has a uniformly flat circular cylinder sleeve segment strip forming the zone of elasticity (9).

7. A quick-lock nut, as set forth in claim 6, wherein said spring (7) is displaceable in a radial generally perpendicular direction relative to the axial direction of said spindle (4).

8. A quick-lock nut, as set forth in Claim 7, wherein one of said axial stop (8) and said inner threaded part has as a radially outwardly radial stop (10), and said manually displaceable tensioning means (6) forms a radially inwardly oriented stop (11) for said flat springs arranged therebetween.

9. A quick-lock nut, as set forth in Claim 8, wherein said tensioning means (6) is formed as a sleeve manually displaceable in the direction of the axis of rotation (A).

10. A quick-lock nut, as set forth in Claim 5, wherein the zone of elasticity (9') extends circumferentially of said axis of rotation.

11. A quick-lock nut, as set forth in Claim 10, wherein one of said stop (8) and said inner threaded part (5) comprises a tangential stop (14) and said manually displaceable tensioning means (6) has an opposing tangentially oriented counter tangential stop (15) with said flat spring (7) arranged therebetween.

12. A quick-lock nut, as set forth in Claim 10, wherein said manually displaceably tensioning means (6") forms a tangentially oriented tangential stop (14) with an opposing tangentially oriented counter tangential stop (15) and with said flat springs (7) arranged in openings (13) therebetween.

13. A quick-lock nut, as set forth in Claim 11, wherein said tensioning means (6, 6") is formed as one of a manually displaceable and axially displaceable cage.